Application No.	Applicant(s)
10/608,427	KANG, HEE BOK
Examiner	Art Unit
Toan Le	2824
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## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

- Non-elected claims 24-27 are canceled.
- In claim 20, line 6: after "a cell plate control signal" insert -- is applied --.

The examiner's amendment has been made in order to place the application in a condition for allowance.

## **DETAILED ACTION**

## **Priority**

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

# Information Disclosure Statement

- This office acknowledge receipt of the following items from the Applicant:
   Information Disclosure Statement (IDS) filed on November 24, 2003.
- 4. Information disclosed and list on PTO 1449 was considered.

## Allowable Subject Matter

5. Claims 1-23 are allowable over the art of record.

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6. The following is an examiner's statement of reasons for allowance: There is no suggestion or teaching in the art of record disclosing a FeRAM control device comprising a pumping voltage controller receiving a power voltage control signal and a power voltage in a low voltage region to output a pumping voltage control signal for boosting an output signal of an unit register in combination with the remaining claimed limitations as recited in the independent claims 1 and 18, nor is there suggestion or teaching to provide a pumping voltage control signal inputting to a pumping voltage driver at a timing different from a power voltage control signal in a low voltage region to amplify and full up both nodes of a unit register in combination with the remaining claimed limitations as recited in the independent claim 16, nor is there suggestion or teaching to provide a cell plate pumping voltage control signal depending on states of a power voltage control signal and a cell plate control signal in combination with the remaining claimed limitations as recited in the independent claim 20, nor is there suggestion or teaching to provide a write enable pumping voltage control signal depending on states of a power voltage control signal and a write enable control signal in combination with the remaining claimed limitations as recited in the independent claim 22.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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## Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kang (U.S. 6,721,198), Kang (U.S. 6,707,700) disclose a nonvolatile ferroelectric memory device similar to that of applicant, but do not teach a pumping voltage controller, cell plate voltage controller and a write enable voltage controller for outputting a control signal depending on a power control signal, a cell plate control signal and write enable control signal.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan Le whose telephone number is (571) 272-1872. The examiner can normally be reached on M-F (8.00AM - 5.30PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TL

January 10, 2005

VAN THU NGUYËN REMARY EXAMINER